Name _____

Computer Science

Background:

Computer science is the art of blending human ideas and digital tools to increase our power. Computer scientists work in many different areas: writing apps for phones, curing diseases, creating animated movies, working on social media, building robots that explore other planets and so much more. Think about things in your everyday life that use computer science: a cell phone, a microwave, a computer, a traffic light… all of these things needed a computer scientist to help build them.

According to an article posted by the Math Learning Center of Chicago, IL, in most countries, students are required to learn computer science. In the United States, roughly 10% of schools offer computer science as a course (meaning 90% of schools do not). This is a huge advantage for students who can take the courses, as software jobs are some of the highest paying jobs in the nation and available jobs outnumber students 3-to-1 (with a projected gap of 1 million jobs over 10 years).

Research Part One:

Using your iPad, research *4 different jobs* a computer scientist may have. Complete the table as you do you research (if you need more space, add a page to your worksheet). You will be sharing and comparing your work with others.

Title of Job	Job Description	Education Needed	Annual Salary	Sources of information
1				
2				
3				
4				

Name _____

Computer Science

Research Part Two:

In addition to researching some of the potential jobs of a computer scientist, you will use your iPad to research one of the 20 most influential living computer scientists (follow the link for a list of names) or *Rear Admiral Grace Murray Hoppe*, the founder of the first computer programming language. Complete the worksheet as you research.

Image of the individual

Name	
Why he or she is famous	
Birth date / death date / current age	
education	
family	
Biggest influences on him or her	
Famous Quote by the individual or about the individual	

Name _____

Computer Science

Practicing Code

Now that you understanding some things about who computer scientists are and what they do, you are going to play the part of a computer scientist.

1. Down load the **chrome** search engine on to your iPad
2. Open Chrome and enter the address **Learn.Code.Org**
3. Set up an account
    a. Enter a **user name**
    b. Enter a **password**
    c. Enter your **section code**
        i. Hour 1 enter: TRPMTY
        ii. Hour 4 enter: KLGLTR
        iii. Hour 5 enter: BWYJTS
        iv. Hour 6 enter: BNWFLD

My Learn.Code.Org Log in Information

My user name is:
My password is:
My Section Code is:

Monitoring My Own Progress (approximately 15 hours of code)

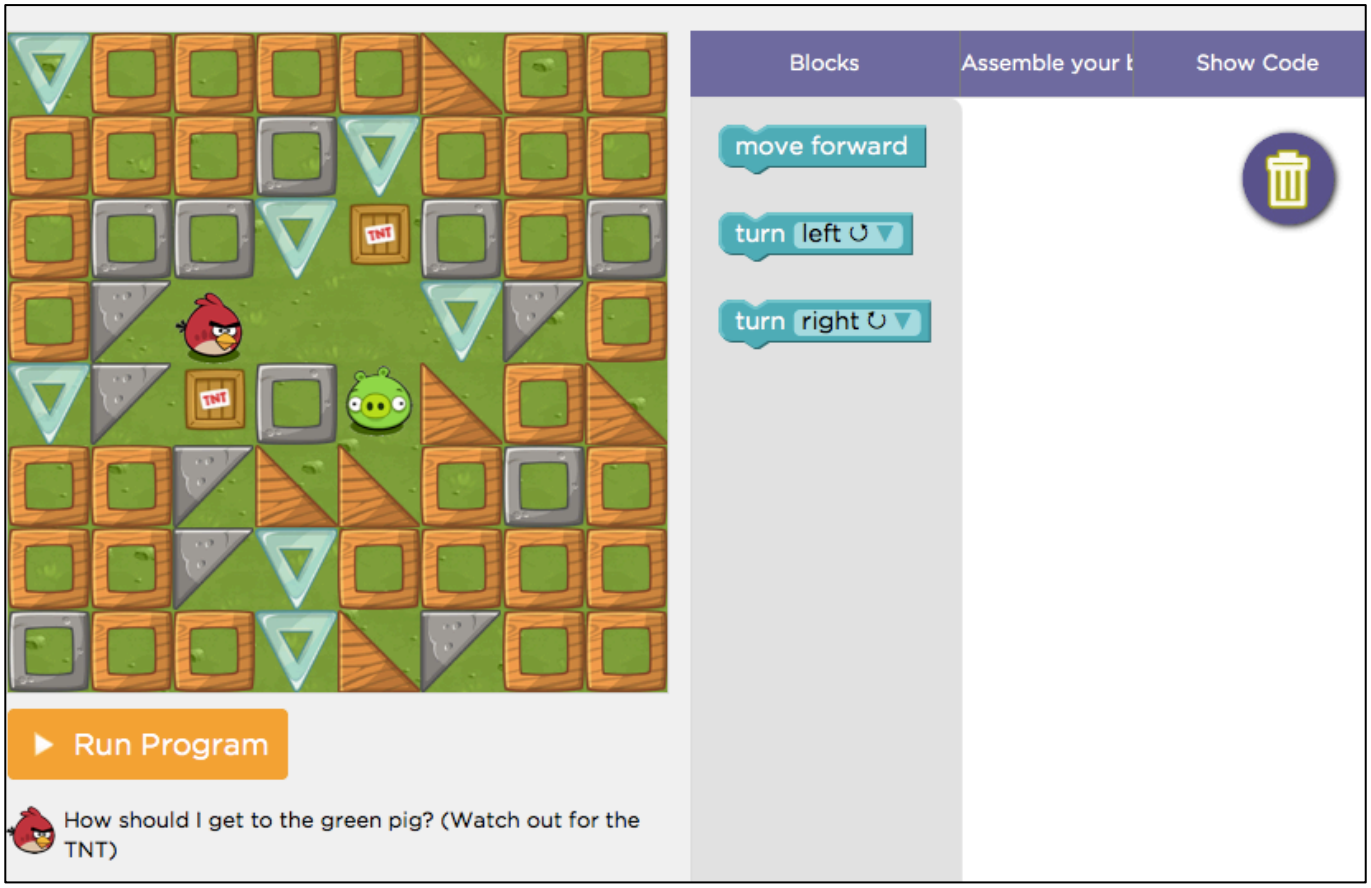
Day and Date	Stage and level Number	Trophies earned
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		

Name _____

Computer Science

Practicing Code

Write the blocks needed to move the angry bird to the piggy.



Create a maze that would be solved by the following code: